

## C.9 OFF-SITE TREATMENT REQUIREMENTS

Figures C.9-1, Contractor Submittal Register, and C.9-2, Deliverables/Submittals Review Cycles, have been placed at the end of Section C.9 for ease of reading the following project requirements.

### C.9.1 Off-site Treatment Alternative

Any Silo 3 material which is to be treated off-site shall be pretreated at the FEMP by the Contractor to reduce dispersibility characteristics prior to packaging and shipment.

This section identifies the additional minimum requirements for performing the on-site pretreatment and off-site stabilization of the Silo 3 material. Sections C.1 through C.8 identify the requirements for performing the removal, on-site stabilization, packaging, and interim storage of the Silo 3 material at the FEMP. The Contractor shall comply with the requirements in Sections C.1 through C.8 to those portions of the work scope involving activities performed at the FEMP (e.g., waste retrieval, transfer, pretreatment, etc.) prior to off-site stabilization of the Silo 3 material. The Contractor shall comply with the requirements identified in Sections C.1 through C.8 for off-site treatment activities, except where otherwise noted herein, or where noted in the Contractor's technical proposal and incorporated into this contract.

Per Section C.9.4.2.1, the Contractor shall obtain a license from the NRC or Agreement State allowing possession and treatment of Silo 3 material and submit a copy of the license to FDF, prior to FDF providing Authorization to Mobilize (Figure C.9-1).

### C.9.2 Scope of Work

#### C.9.2.1 On-site Activities

The Contractor shall meet the requirements of Sections C.1 through C.8 for those portions of the work scope involving activities performed at the FEMP. In addition to the on-site requirements described in Sections C.1 through C.8, the Contractor shall meet the requirements for the on-site activities summarized in Table C.9-1.

**Table C.9-1  
SUMMARY OF ADDITIONAL ON-SITE ACTIVITIES/REQUIREMENTS  
ASSOCIATED WITH OFF-SITE TREATMENT OF SILO 3 MATERIAL**

Activity	Section
Pretreatment of Silo 3 Material	C.9.6.1
Pretreated Silo 3 Material Packaging Requirements	C.9.3.2.1
On-site Demobilization	C.9.8.1

The approved Silo 3 ESD specifies that for off-site treatment to be acceptable on-site pretreatment, in combination with packaging in accordance with DOT regulations, must reduce the dispersibility of thorium-bearing particulates and result in an incremental lifetime cancer risk (ILCR) less than  $1 \times 10^{-6}$  to the public resulting from transportation of the pretreated Silo 3 material to the Contractor's off-site treatment facility (Section C.9.6.1).

#### **C.9.2.2 Off-site Activities**

Any activities performed by the Contractor at its off-site treatment facility to treat Silo 3 material to meet the Silo 3 WAC shall meet the requirements in Sections C.1 through C.8, except as otherwise noted herein, or where incorporated into this contract.

### **C.9.3 General Off-site Project Requirements**

The Contractor shall furnish all personnel, technicians, radiological control technicians, tools, plans, reports, facilities, equipment, material, supplies, PPE, utilities, and all other services incidental to the execution for that portion of the work scope performed at the Contractor's off-site treatment facility.

The Contractor shall allow access to subcontractor facilities on the premises of the treatment facility to accommodate up to ten FDF and DOE personnel throughout the duration of the operations, facility shutdown and dismantlement, and demobilization phases of the contract.

The subcontractor facilities shall be fully functional and maintained with the following for each of the FDF and DOE personnel: desk, chair, computer (Pentium II® or equivalent) with Word Perfect® 6.1, Internet access, printer (one total), secured office access, telephone, and vehicle parking.

The office facilities shall also be properly equipped and maintained with the following: fire protection, heating, cooling, ventilation, facsimile machine, drinking water, restroom facilities, refrigerator, microwave oven, and janitorial services. All utilities for the office facilities shall be provided by the Contractor at its own expense.

#### **C.9.3.1 Environmental Safety and Health Requirements**

The Contractor shall comply with all applicable local, state, and federal requirements governing operation of its off-site treatment facility. These requirements include those that are covered under any occupational safety, radiological control, nuclear safety, quality assurance, air, water, and solid waste programs existing in the state where the facility is located.

#### **C.9.3.2 Packaging and Transportation Requirements**

The Contractor shall perform all packaging and transportation services of the pretreated Silo 3 material and treated Silo 3 waste in accordance with its FDF-approved Transportation Plan (Sections C.9.3.3 and C.9.6) and this SOW. No deviation from the approved Transportation Plan shall be permitted without prior written approval of the FDF Technical Representative.

### C.9.3.3 Submittals

All submittals identified in Figures C.4-1 and C.4-2 still apply to a Contractor performing off-site treatment of the Silo 3 material and have been duplicated in Figures C.9-1 and C.9-2, respectively. These submittals must contain information for both that portion of the activities performed on-site, at the FEMP, as well as that portion of the work performed off-site, at the Contractor's treatment facility. The Contractor may submit separate submittals for that portion of the activities performed off-site upon written concurrence by the FDF Technical Representative.

As identified in Figures C.9-1 and C.9-2, the Contractor shall submit to FDF for approval the following submittals associated with off-site treatment:

a. Packaging and Transportation Plan

During the Pre-operational Phase, the Contractor shall develop and submit a Transportation Plan that discusses the following requirements during packaging and transportation of the pretreated Silo 3 material to the off-site treatment facility:

- | Mode of transportation;
- | Type of containers;
- | FEMP traffic flow diagram;
- | Truck scale location and operation and maintenance plan;
- | Description of packaging and transportation configurations;
- | Shipping company DOE certifications, personnel licenses, and training records;
- | Container certifications;
- | Management of used containers from transportation of pretreated Silo 3 material;
- | Transportation route;
- | Stakeholder notification;
- | Transportation schedule;
- | Emergency Response Plan;
- | Emergency Notification Process;
- | Daily Reporting Requirements; and
- | Transportation logs.

b. Permits and Licenses

Prior to authorization to mobilize, the Contractor shall submit all necessary documentation

including copies of the off-site treatment facility's permits and licenses that are necessary to operate the facility in accordance with local, state, and federal requirements.

The Contractor shall submit the necessary documentation to demonstrate the off-site treatment unit is operating in compliance with the requisite regulations under RCRA and the CERCLA Off-site Rule (40 CFR Part 300.440) (Section C.9.4.2.2).

Within ten days of contract award, the Contractor shall provide written documentation to FDF that the Contractor has requested from the appropriate Regional Office of the U.S. EPA authorization to accept CERCLA waste for treatment at the proposed receiving unit.

Within six months of contract award, the Contractor shall provide to FDF a copy of the U.S. EPA approval letter showing that the receiving unit is approved to receive CERCLA waste.

In addition, the Contractor shall submit a description of any enforcement actions taken against the Contractor, and/or its proposed off-site treatment facility, in the past five years by any federal, state, or local authorities for violations, or suspected violations of environmental laws or regulations.

c. Remedial Design Package

During the Pre-operational Phase, the Contractor shall develop and submit a RD Package. If the Contractor proposes off-site treatment of the Silo 3 material, the RD Package shall address the same bulletized requirements as stated for the RD Package (Section C.5.1.4) for both the on-site and off-site treatment facilities. The RD Package shall also discuss attainment of the dispersibility requirements for the on-site operations (Section C.9.6.1) describing:

- ! Pretreatment process description;
- ! Pretreatment operations philosophy;
- ! Controlling limits and operating parameters;
- ! Methods for measuring parameters;
- ! Frequency of measurements;
- ! Means for preventing and correcting deviations;
- ! Methods and techniques used for performing dispersion modeling;
- ! Dispersion risk modeling data and calculations demonstrating acceptable transportation risk;
- ! Plan for handling process waste that does not meet dispersibility limits;
- ! Secondary Waste Minimization Plan; and
- ! List of Contractor procedures and any necessary FDF procedures governing the project pretreatment operations.

d. Material Receipt and Tracking Plan

During the Pre-operational Phase, the Contractor shall develop and submit a Material Receipt and Tracking Plan that discusses the following for activities performed at its off-site treatment

facility:

- ! Activities to be performed by the Contractor to ensure compliance with all pertinent local, state, and federal agency license and permits necessary to receive, possess, process, and manage Silo 3 material;
- ! Activities to support quality assurance;
- ! Activities to support health and safety provisions; and
- ! Detailed procedures to inventory and track Silo 3 material throughout all processing activities to support an accurate material mass balance.

#### **C.9.4 Pre-mobilization Phase**

##### **C.9.4.1 On-site Activities**

The Contractor shall meet the requirements established for the pre-mobilization phase of the project in Section C.3.2.1 for that portion of the work scope involving activities performed at the FEMP.

##### **C.9.4.2 Off-site Activities**

Prior to FDF issuance of the NTP, the Contractor shall submit the required items listed within the timeframe specified in Figures C.9-1 and C.9-2, for FDF review and acceptance.

###### **C.9.4.2.1 Permits and Licenses**

The Contractor shall obtain and maintain all necessary permits and licenses to operate the off-site treatment facility in accordance with the local, state, and federal requirements governing the facility. The Contractor shall submit copies of the necessary permits and licenses to FDF for inspection prior to FDF providing authorization to mobilize.

Throughout the duration of this project, the Contractor shall be responsible for all actions required to assure compliance with any license restrictions. The Contractor shall have implemented an interactive source and radioactive materials tracking system to ensure that any licensed and/or permitted limits are not exceeded.

###### **C.9.4.2.2 Compliance with Off-site Rule**

The CERCLA off-site rule, found in CERCLA Section 121(d)(3) and promulgated at 40 CFR Part 300.440, requires that waste from a remedial action that is shipped off-site for treatment and/or disposal be transferred only to those units at a facility that are operating in compliance with RCRA and with all other applicable federal and state requirements, and that do not have any uncontrolled releases of hazardous waste or constituents. The policy applies to the Silo 3

material, even though it is defined as AEA 11(e)2 byproduct material, excluded under RCRA. The policy applies to any remedial action involving the transfer of hazardous substances, pollutants, or contaminants as defined under CERCLA sections 101(14) and (33) pursuant to any CERCLA authority, including cleanups at Federal Facilities [40 CFR Part 300.440(a)(1)].

#### **C.9.4.3 Authorization to Mobilize**

After issuance of the NTP and before Authorization to Mobilize, the Contractor shall submit the required items listed in Figures C.9-1 and C.9-2 for review and acceptance by FDF, and as appropriate DOE and the EPAs. The Contractor will not receive written authorization to mobilize from the FDF Contract Administrator until these submittals are accepted by FDF, and as appropriate DOE and the EPAs.

### **C.9.5 Pre-operational Phase**

The Contractor shall prepare and submit a separate CONOPs Applicability Matrix for FDF review and approval addressing all necessary on-site activities at the FEMP and any off-site activities supporting the off-site treatment of the Silo 3 material (e.g., on-site pretreatment activities, transportation to off-site treatment facility, off-site treatment operations, etc.)

#### **C.9.5.1 On-site Activities**

The Contractor shall meet the requirements established for the Pre-operational Phase of the project in Section C.3.2.2 for that portion of the work scope involving activities performed at the FEMP.

#### **C.9.5.2 Off-site Activities**

The Contractor shall perform any necessary site preparation activities. Construction of any new facilities or modifications of any existing facilities at the Contractor's off-site treatment facility shall be performed by the Contractor in compliance with applicable design standards and codes.

The Contractor shall ensure operators and support personnel of the off-site treatment facility are properly trained. The Contractor shall conduct the necessary start-up and operational testing, system operability testing, etc., in accordance with the requirements in Section C.5.4.

The Contractor shall prevent commingling of Silo 3 material with other waste streams at its off-site treatment facility. The Contractor shall decontaminate its treatment facility prior to processing any Silo 3 material. The Contractor shall give FDF the opportunity to inspect the Contractor's treatment facility to verify it has been properly decontaminated to prevent commingling of Silo 3 material with other waste streams.

In addition to the required information presented in the RD Package per Section C.5.1.4, the Contractor shall describe in the RD Package the methods to be used to decontaminate the

treatment equipment to prevent commingling of Silo 3 material with other waste streams.

#### **C.9.5.3        Authorization to Operate**

Authorization to Operate will be issued by FDF in writing upon receipt of a written request from the Contractor and after the following activities have been both completed at its FEMP facilities and its off-site facilities, as applicable:

- ! Completion of pretreatment facility construction;
- ! Completion of any necessary facility construction or modification at the Contractor's off-site treatment facility;
- ! Completion of SOT;
- ! Completion of Pre-operational Assessment; and
- ! Review and approval/acceptance by FDF, DOE, and the EPAs (as applicable) of the required items listed in Figures C.9-1 and C.9-2.

### **C.9.6    Operational Phase**

#### **C.9.6.1       Pretreatment of Silo 3 Material**

The Contractor shall develop and submit a description of their pretreatment operations as part of their OWP in accordance with Section C.9.3.3. The Contractor's method for pretreatment must be approved by FDF, DOE, and the U.S. EPA as part of the Contractor's OWP.

The Contractor shall perform pretreatment of the Silo 3 material at the FEMP prior to its packaging and shipment to the Contractor's off-site treatment facility.

The Contractor shall chemically and/or physically pretreat the Silo 3 material to reduce its dispersibility characteristics. The Contractor shall not take credit for reduced dispersibility of the Silo 3 material resulting from any packaging materials.

Transportation risk for off-site treatment shall be maintained less than  $1 \times 10^{-6}$  through on-site pretreatment of Silo 3 material and packaging in accordance with DOT regulations.

#### **C.9.6.2       Pretreated Silo 3 Material Packaging and Transportation Requirements**

Pretreated Silo 3 material shall be packaged for shipment as LSA-II solid material under exclusive use conditions in accordance with 49 CFR Part 173.427.

The Contractor shall provide all necessary shipping containers for the pretreated Silo 3 material in accordance with the requirements specified in Sections C.4.2.4 and C.6.2.10.

The Contractor shall provide the necessary containers for secondary waste generated during pretreatment operations. Secondary waste generated during pretreatment operations, that is destined for off-site disposal, shall be packaged in containers appropriate for the materials'

U.S. DOT hazard classification defined in 49 CFR, Subchapter C, Hazardous Materials Regulations and the Silo 3 WAC.

The Contractor shall transport pretreated Silo 3 material in accordance with DOT radioactive material shipping requirements.

The Contractor shall prepare necessary shipping manifests in accordance with DOT radioactive material shipping requirements. The Contractor shall also ensure that shipping containers are properly weighed, marked and labeled, and the proper placards and shipping papers are provided to the carrier. The Contractor shall prepare and load containers for shipment in accordance with the FEMP labor agreements.

The Contractor shall provide FDF with the necessary documentation (e.g., analytical data, process information) for FDF to track material leaving the FEMP. All waste streams and waste containers shall possess corresponding MEFs, 65-cards, lot codes, and inventory numbers for proper tracking in FDF's SWIFTS database.

Currently, DOE-FEMP ships material by direct truck using the following carriers: Autumn Industries, Ranger, and Tri-State. These carriers have been approved by DOE for use in accordance with the Motor Carrier Evaluation Process (MCEP). It is preferred that the Contractor use one of the three aforementioned carriers to transport pretreated Silo 3 material to the off-site treatment facility. If the Contractor elects to use a carrier other than those listed above, the Contractor shall ensure that the carrier has been approved by DOE under the MCEP prior to the shipment of pretreated Silo 3 material.

The Contractor shall arrange shipment of pretreated Silo 3 material with the selected DOE-approved carrier and ensure that the carrier can provide the necessary equipment to meet the specified remediation schedule. The Contractor shall be responsible for the staging of containers prior to shipment.

The Contractor shall be responsible for the condition of containers during transportation from the FEMP to its off-site treatment facility.

The Contractor shall ensure that the selected carrier provides personnel (e.g., drivers) that have current licenses, certifications, and radiological training appropriate for safe handling of the material.

#### **C.9.6.3        Stabilized Silo 3 Waste Packaging and Transportation Requirements**

The Contractor shall treat Silo 3 material to meet the Silo 3 WAC. This will include treatment to immobilize the RCRA-regulated metal constituents and eliminate the toxicity characteristic associated with the waste and treatment to immobilize fine particulates and remove any free liquids.

Treated Silo 3 waste shall be packaged for shipment as LSA-II solid material under exclusive use conditions in accordance with 49 CFR Part 173.427.

The Contractor shall provide all necessary shipping containers for the stabilized Silo 3 waste in accordance with the requirements specified in Sections C.4.2.4 and C.6.2.10.

Containers used for packaging stabilized Silo 3 wastes must meet the waste package criteria. This criteria includes design, nuclear safety, radiation levels, external contamination, activity limits, nuclear heating, and multiple hazards requirements in 49 CFR, 40 CFR, 10 CFR, and DOE Orders.

In addition, the package shall support a uniformly distributed load of 16,477 kg/m<sup>2</sup> (3,375 lbs/ft<sup>2</sup>).

The Contractor shall use either 1.2 m x 1.2 m x 2.1 m (4' x 4' x 7') or 1.2 m x 0.6 m x 2.1 m (4' x 2' x 7') boxes or 208 liter (55 gallon) drums, with weight limitations of 4,082 kg (9,000 lb) per box and 544 kg (1,200 lb) per drum. Other proposed dimensions must be approved by FDF.

The Contractor shall refer to Attachment J.4.4 for a detailed discussion of the Silo 3 WAC and waste package criteria.

The Contractor shall procure all necessary containers for secondary waste generated during off-site treatment operations. Secondary waste generated during off-site treatment operations, that is destined for off-site disposal, shall be packaged in containers appropriate for the materials' DOT hazard classification defined in 49 CFR, Subchapter C, Hazardous Materials Regulations and the Silo 3 WAC.

The Contractor shall provide FDF personnel with the necessary documentation (e.g., analytical data and process information) to properly and accurately demonstrate that the stabilized Silo 3 waste attains all requirements of the Silo 3 WAC, as well as to ensure that containers are properly marked and labeled, and the proper placards and shipping papers are provided to the carrier.

The Contractor shall coordinate efforts with FDF personnel to prepare the waste stream application for stabilized Silo 3 waste and obtain acceptance of stabilized Silo 3 waste.

Any waste not meeting the Silo 3 WAC, due to the fault of the Contractor, shall be returned to the Contractor for reprocessing or retained for corrective action by the disposal facility at the Contractor's expense.

Shipping papers will be prepared and signed by FDF personnel. The Contractor shall weigh, mark, label, and load the containers for shipment, and provide the proper placards and shipping papers to the carrier.

FDF will coordinate efforts with the Contractor to transport stabilized Silo 3 waste in accordance with DOT radioactive material shipping requirements. FDF will be responsible for shipment of stabilized Silo 3 waste.

Generation of secondary waste shall be kept to a minimum and, to the extent practical, should

be recycled during the treatment process. Management of secondary waste generated by the Contractor shall be the responsibility of the Contractor at the Contractor's expense.

Classification and packaging of secondary wastes (including dismantling and cleanup wastes) generated off-site by the Contractor shall be based on radiological monitoring data, analytical data, and process information provided by the Contractor to FDF personnel. All waste streams and waste containers shall possess corresponding MEFs, 65-cards, lot codes, and inventory numbers for proper tracking in FDF's SWIFTS database.

The Contractor shall recycle radioactive secondary wastes back into the process wastes for treatment to the extent practicable for proper disposal with stabilized Silo 3 waste.

Nonradioactive solid waste shall be surveyed by the Contractor's radiological technicians prior to disposal as solid waste. Records of secondary waste generated (and recycled) shall be managed by the Contractor.

All wastes generated at the off-site treatment facility shall be managed in accordance with the facility's permits and licenses and all pertinent local, state, and federal requirements.

#### **C.9.6.4 Treatment Operations**

The Contractor shall treat the Silo 3 material to meet the requirements of the Silo 3 WAC in accordance with Section C.6. The Contractor shall prevent commingling of Silo 3 material with other waste streams at its off-site treatment facility. The Contractor shall decontaminate its treatment facility prior to processing any Silo 3 material. The Contractor shall give FDF the opportunity to inspect the Contractor's treatment facility to verify it has been properly decontaminated to prevent commingling of Silo 3 material with other waste streams.

#### **C.9.6.5 Interim Storage of Waste Containers**

##### **Pretreated Waste**

The Contractor shall provide and maintain all areas for interim staging and loading of pretreated waste containers and transportation trailers at the FEMP prior to shipment to its off-site treatment facility.

##### **Treated Waste**

The Contractor shall ensure enough space is available at its off-site treatment facility for interim staging of filled containers prior to shipment. The interim staging capacity shall account for appropriate activities required prior to shipment, including but not limited to the Contractor's time for waste curing and analysis of treated waste, FDF review of analytical results, FDF verification of compliance with the Silo 3 WAC, and final labeling and marking of the containers. FDF will require 30 calendar days, upon receipt of acceptable laboratory data, to inspect, approve the treated waste, and complete shipment of the treated waste using Contractor personnel as described in Section C.9.6.3.

#### **C.9.6.6 Secondary Waste**

The generation, management, and disposal of all secondary waste (e.g., wastewater, stormwater, air emissions, solid wastes, etc.) at the Contractor's off-site treatment facility shall be performed in accordance with all pertinent local, state, and federal requirements that regulate the Contractor's facility, as well as those ARARs identified as "applicable" in Attachment J.4.1.

The Contractor shall treat, if necessary, and package any nonwastewater secondary radioactive waste to meet the Silo 3 WAC at its own expense. Nonradioactive solid waste shall be surveyed by the Contractor's radiological technicians prior to disposal as solid waste. The Contractor shall treat any wastewater generated during Silo 3 treatment operations through its wastewater treatment system in accordance with its site requirements. The Contractor shall identify in its OWP all secondary waste streams. FDF will assist the Contractor in preparing waste characterization information and waste stream applications for the secondary waste. FDF will ship and obtain the necessary acceptance for proper disposition of the waste streams. The Contractor shall weigh, mark, label, and load the containers for shipment and provide the proper placards and shipping papers to the carrier.

#### **C.9.6.7 Contractor Notifications and Reporting**

The Contractor shall notify FDF of any occurrence involving its off-site facility operations and shipments. Occurrence types are defined in Attachment J.4.98, FEMP Procedure EM-0025, "Event Categorization/Classification Procedure."

If an out-of-compliance shipment is received by the Contractor at its off-site treatment facility, the Contractor shall notify FDF of the apparent noncompliance. The Contractor shall support FDF in the preparation of an Occurrence Report. The report shall identify the noncompliance and identify any corrective actions taken or planned to eliminate the occurrence from being repeated. These reporting criteria are in addition to any required by DOT regulations.

The Contractor shall notify FDF of any occurrence impacting operation of its treatment facility. The Contractor shall notify FDF within 48 hours upon receipt of information that may adversely affect the Contractor's ability to perform services as described in this SOW. Such information includes, but is not limited to:

- ! pending or actual litigation; and
- ! violations of statute, law, or regulation.

#### **C.9.6.8 Truck Scale**

The Contractor shall supply a truck scale at the FEMP to establish the tare, net, and gross weight of each trailer. The location of the truck scale at the FEMP will be jointly agreed upon between FDF and the Contractor. The Contractor shall also provide a truck scale at its off-site facility for weighing truck shipments of treated waste to the off-site disposal facility.

The Contractor shall perform installation and all required preventive maintenance for the truck scale, and its associated components, including, inspection and maintenance, calibration, certification, and documentation as necessary, of the scale weigh cells (at least monthly).

### **C.9.7 Facility Shutdown and Dismantlement**

#### **C.9.7.1 On-site Facility Shutdown and Dismantlement**

Upon completion of waste retrieval and pretreatment operations, the Contractor shall request in writing from FDF, written approval to begin facility shutdown and dismantlement activities at the FEMP.

Upon completion of retrieval and pretreatment operations of all the Silo 3 material; removal of all visible, non-fixed material from the Silo 3 interior; complete reprocessing of any off-specification pretreated Silo 3 material; and the off-site treatment facility receiving and accepting all pretreated Silo 3 material for treatment, FDF will provide written approval for the Contractor to begin facility shutdown and dismantlement activities for its retrieval and pretreatment facilities at the FEMP.

In addition, the required items listed in Figures C.9-1 and C.9-2 shall be submitted to FDF for review and approval. The Contractor shall complete these submittals during the Operations Phase so that approval to begin shutdown can be requested at the completion of operations.

The Contractor shall perform facility shutdown and dismantlement activities for its retrieval and pretreatment facilities at the FEMP in accordance with Sections C.3.2.4 and C.7.

#### **C.9.7.2 Off-site Facility Shutdown and Dismantlement**

Upon completion of treatment operations, the Contractor shall request in writing from FDF, written approval to begin facility shutdown and dismantlement (if necessary) activities at its off-site treatment facility.

Upon completion of treatment operations of all the Silo 3 material; complete reprocessing of any off-specification treated Silo 3 waste; and the disposal facility receiving and accepting all treated Silo 3 waste for disposal, FDF will provide written approval for the Contractor to begin facility shutdown and dismantlement activities for its off-site treatment facility.

In addition, the required items listed in Figures C.9-1 and C.9-2 shall be submitted to FDF for review and approval. The Contractor shall complete these submittals during the Operations Phase so that approval to begin shutdown can be requested at the completion of operations.

The Contractor shall meet the pertinent requirements in Sections C.3.2.4 and C.7 to remove and treat all hold-up material and perform any necessary decontamination activities at its

off-site treatment facility to prevent commingling of Silo 3 material with other waste streams located at the Contractor's treatment facility.

Secondary waste generated during off-site treatment facility shutdown and dismantlement activities shall be managed in accordance with the requirements stated in Section C.9.6.6.

### **C.9.8 Demobilization**

#### **C.9.8.1 On-site Demobilization**

Upon completion of safe shutdown and dismantlement activities (Sections C.7 and C.9.7), the Contractor shall request in writing from FDF, written approval to begin demobilization activities at the FEMP.

Upon completion of dismantlement work, proper pretreatment, shipment off-site and disposal of the secondary waste, and completion of any on-site restoration activities, FDF will provide written approval for the Contractor to demobilize. The Contractor shall remove all temporary facilities and perform site restoration in accordance with Sections C.3.2.5.2 and C.3.2.5.3.

#### **C.9.8.2 Off-site Demobilization**

Upon completion of facilities shutdown and dismantlement activities (Section C.9.7), the Contractor shall request in writing from FDF, written approval to begin off-site demobilization activities.

FDF will inspect the Contractor's facilities to ensure all Silo 3 material has been treated, hold-up material removed, equipment decontaminated and dismantled, and all waste properly dispositioned, prior to issuing approval to demobilize.

### **C.9.9 Labor**

For that portion of the work scope involving activities performed at the FEMP (e.g., waste retrieval, pretreatment), the Contractor shall utilize the FDF/FAT&LC and GCBCTC labor forces, in accordance with Section C.8 and the labor requirements established in the PLA and the CBA.

Labor requirements established in the PLA and the CBA do not apply to those portions of the work scope conducted at the Contractor's off-site treatment facility.

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## **COMPLETION OF THE CONTRACTOR SUBMITTAL REGISTER**

The following Contractor Submittal Register includes the FDF submittal number, the submittal type, the document family, document title, submittal due date, and contract reference.

To allow FDF to track Contractor submittals, the Contractor shall assign its own unique number for each document and enter that number on the appropriate line of the column titled "Document No. and Rev."

**(END OF PAGE)**

Contract No. F98P132339

## Submittal Due Dates

Contract Title: Silo 3 Project

Contractor \_\_\_\_\_

A= Within 10 days after award  
 B= Within 10 days from notice to proceed  
 C= Within 30 days from notice to proceed  
 D= Within 1 day after completion of activity  
 E= At a minimum, 60 days prior to start of the activity  
 F= At a maximum, 30 days after sampling  
 G= Prior to authorization for mobilization  
 H= Within 10 days after award of contract  
 I= Prior to request for pre-operational assessment  
 J= Prior to authorization for operations  
 K= Prior to authorization for dismantlement  
 L= Prior to authorization for demolition  
 M= As indicated in the approved schedule  
 N= Within 180 days after award of contract  
 O= Initial submittal to establish baseline, subsequent submittals on a weekly basis

H= Prior to request for pre-operational assessment  
 I= Prior to authorization for operations  
 J= Prior to authorization for facilities shutdown  
 K= Prior to authorization for dismantlement  
 L= Prior to authorization for demolition  
 M= As indicated in the approved schedule  
 N= Within 180 days after award of contract  
 O= Initial submittal to establish baseline, subsequent submittals on a weekly basis

**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-1	INF	Engineering	Submittal Register		A	C.4.7.3
40420-TBD-H-1	INF	Procurement	Performance Bonds/Payment Bond		A	H.51.1 and H. 51.2
40420-TBD-I-1	INF	Procurement	Insurance		A	I, General Provisions A.44
40420-TBD-H-2	INF	Procurement	Standard Form SF1413, "Statement and Acknowledgment"		A	H.43.2.2
40420-TBD-H-3	INF	Procurement	PLA Letter of Assent		A	H.30.2
40420-TBD-H-4	INF	Procurement	List of Subcontractors		A	H.10.4
40420-TBD-J-1	INF	Training	Training Certificates		A	J.3.3.3.1
40420-TBD-I-2	INF	Engineering	Conflict of Interest Laboratory Utilization Plan		A	I, General Provision A.36
40420-TBD-H-5	CFC	Engineering	Resumes of Key Personnel (if they differ from proposal submittal)		A	H.16, C.1.2.2
40420-TBD-C-45	INF	Engineering	Copy of Letter Requesting U.S.EPA Approval to Receive CERCLA Waste at Offsite Receiving Unit		A	C.9.4.2.2
40420-TBD-C-2	CFC	Engineering	Baseline Schedule		B	C.4.6
40420-TBD-J-2	INF	Health & Safety	Safety and Health Program		B	J.3.3.1
40420-TBD-J-3	CFC	Health & Safety	S&H Representative Qualifications		B	J.3.3.2.1.1
40420-TBD-J-4	INF	Health & Safety	Competent Person List		B	J.3.3.2.1.2
40420-TBD-J-5	CFC	Health & Safety	Safety Basis Documentation Implementation Plan (Final)		C	J.3.2.3.2.1 & Table J.3.2-2

Contract No. F98PP1323339

## Submittal Due Dates

Contract Title: Silo 3 Project

Contractor \_\_\_\_\_

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-3	CFC	Engineering	Project Management Plan		C	C.5.1.6.1
40420-TBD-C-4	CFC	Engineering	Engineering Management Plan		C	C.5.1.6.2
40420-TBD-C-5	CFC	Engineering	Configuration Management Plan		C	C.5.1.6.3
40420-TBD-C-6	CFC	Engineering	Procurement Management Plan		C	C.5.1.6.5
40420-TBD-J-6	CFC	Quality	Quality Assurance Plan		C	C.5.1.6.4, J.3.5.2
40420-TBD-C-6	CFC	Quality	Records Management and Document Control Plan		C	J.3.5.7
40420-TBD-J-7	CFC	Health & Safety	Contractor Project-Specific Health and Safety Plan		C	J.3.3.1.2
40420-TBD-J-8	CFC	Health & Safety	• Pre-operational Phase Activities, Rev. 0		G	J.3.3.1.2
40420-TBD-J-9	CFC	Health & Safety	• Operational Phase Activities, Rev. 1		H	J.3.3.1.2
40420-TBD-J-10	CFC	Health & Safety	• Facility Shutdown and Dismantlement, Rev. 2		J	J.3.3.1.2
40420-TBD-C-7	CFC	Construction	CAT Plan		G	C.5.3.2
40420-TBD-C-46	CFC	Engineering	Copy of NRC License		G	C.9.1
40420-TBD-J-11	INF	Health & Safety	Access Request and Profile Forms (General Access)		G	J.3.3.4.1
40420-TBD-J-12	INF	Health & Safety	Medical Monitoring		G	J.3.3.1.9
40420-TBD-J-13	CFC	Health & Safety	Accident Prevention Plan		G	J.3.3

Contract No. F98P132339

## Submittal Due Dates

Contract Title: Silo 3 Project

Contractor \_\_\_\_\_

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-J-14	CFC	Health & Safety	Respirator Program		G	J.3.3.2.1.5
40420-TBD-J-15	CFC	Health & Safety	Heat and Cold Stress Program		G	J.3.3.2.1.7
40420-TBD-J-16	CFC	Health & Safety	Confined Space Program		G	J.3.3.2.1.8
40420-TBD-J-17	CFC	Health & Safety	Carcinogen Control Plan		G	J.3.3.2.1.4
40420-TBD-J-18	CFC	Health & Safety	Fall Protection Plan		G	J.3.3.2.1.15
40420-TBD-J-19	CFC	Health & Safety	Hazardous Chemical List and MSDS Documentation		G	J.3.3.2.1.3
40420-TBD-J-20	INF	Health & Safety	Personnel Monitoring Analysis Results		G, O	J.3.3.2.1.6
40420-TBD-J-21	INF	Health & Safety	General Area Monitoring Analysis Results		G, O	J.3.3.2.1.6
40420-TBD-J-22	CFC	Health & Safety	Radiation Source Accountability and Control Form		G	J.3.3.1.5
40420-TBD-J-23	CFC	Health & Safety	Trenching and Excavating Inspection Forms		G	J.3.3.1.30
40420-TBD-J-24	CFC	Health & Safety	Hoisting Log		G	J.3.3.1.23.8
40420-TBD-C-8	CFC	Construction	Construction Safe Work Plan		G	C.5.3.3.1
40420-TBD-H-6	CFC	Construction	List of Tools, Equipment, Vehicles		G	H.60.1
40420-TBD-C-9	CFC	Construction	List of Temporary Facilities		G	C.5.3.1.5
40420-TBD-J-25	CFC	Quality	Schedule of Inspection and Tests		G	J.3.5.5

Contract No. F98PP1323339

## Submittal Due Dates

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-J-26	CFC	Health & Safety	Health Physics Plan		G	J.3.4.2.2
40420-TBD-C-47	CFC	Engineering	Transportation Plan		G	C.9.3.3
40420-TBD-C-48	CFC	Engineering	Permits and Licenses		G	C.9.3.3
40420-TBD-J-27	CFC	Health & Safety	Preliminary Hazard Analysis (30%, 50%, & Final)		G	J.3.2.3.2.2 & Table J.3.2-2
40420-TBD-J-28	CFC	Health & Safety	Hazard Category Calculations (30%, 50%, & Final)		G	J.3.2.3.2.3 & Table J.3.2-2
40420-TBD-J-29	CFC	Health & Safety	Safety Assessment (30%, 50%, & Final)		G	J.3.2.3.2.4 & Table J.3.2-2
40420-TBD-J-30	CFC	Engineering	Hazard Analysis		G,H	J.3.2.3 & Table J.3.2-2
40420-TBD-J-31	CFC	Health & Safety	Safety Basis Document (30%, 50%, & Final)		G,M	J.3.2.3.2.5 & Table J.3.2-2
40420-TBD-C-10	CFC	Engineering	Site Preparation Package (50%)		G,M	C.5.2.2.1
40420-TBD-C-11	CFC	Engineering	Site Preparation Package (100%)		G,M	C.5.2.2.1
40420-TBD-C-12	CFC	Engineering	Pre-Operational Environmental Control Plan		G,M	C.5.2.2
40420-TBD-C-13	CFC	Engineering	Functional Requirements Document		G,M	C.5.1.2.1
40420-TBD-C-14	CFC	Engineering	Design Criteria Package		G,M	C.5.1.2.2
40420-TBD-C-15	CFC	Engineering	Conceptual Design Package		G,M	C.5.1.2.3
40420-TBD-C-16	CFC	Engineering	Preliminary Design Package		G,M	C.5.1.2.4

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-17	CFC	Engineering	Final Design Report		G,M	C.5.1.2.5
40420-TBD-C-18	CFC	Engineering	Failure Modes and Effects Analysis		G,M	C.5.1.3.1
40420-TBD-C-19	CFC	Engineering	Energy Conservation Report		G,M	C.5.1.3.2
40420-TBD-C-20	CFC	Engineering	Environmental Investigations/Engineering Study Workplans		G,M	C.5.1.3.3
40420-TBD-C-21	CFC	Engineering	Point Source Air Emission Data		G,M	C.5.1.3.4
40420-TBD-C-22	CFC	Engineering	Labor Relations/Work Force Utilization Plan		G,M	C.8.2
40420-TBD-C-23	CFC	Engineering	Welding Program		G,M	C.5.3.1.1
40420-TBD-C-49	CFC	Engineering	EPA Approval Letter to Receive Waste		G,N	C.9.4.2.2
40420-TBD-C-24	CFC	Engineering	Operating Procedures		H	C.5.4.1.1
40420-TBD-C-25	CFC	Engineering	Maintenance Plan		H	C.6.2.12
40420-TBD-C-28	CFC	Engineering	SOT Plan - Procedures		H,M	C.5.4.1.3
40420-TBD-C-29	CFC	Training	Lesson Plans		H,M	C.5.4.1.2.1.2
40420-TBD-C-32	CFC	Engineering	Remedial Design Package		I,M	C.5.1.4, C.9.3.3
40420-TBD-C-50	CFC	Engineering	Material Receipt and Tracking Plan		H	C.9.3.3
40420-TBD-C-30	CFC	Engineering	Request to Perform Pre-operational Assessment		H,M	C.5.5.2

Contract No. F98P132339

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-H-7	CFC	Quality	Written Certification of Compliance with Fastener Quality Act		H	H.28.1
40420-TBD-C-26	CFC	Engineering	Waste Container Certification		H	C.4.2.4, C.6.2.10.1.1
40420-TBD-C-27	CFC	Engineering	Design Closeout Report		H,M	C.5.1.2.6
40420-TBD-C-31	CFC	Engineering	Request to Operate		I	C.3.2.2.1
40420-TBD-C-33	CFC	Engineering	Request to Begin Facility Shutdown and Dismantlement		J	C.3.2.4
40420-TBD-C-34	CFC	Engineering	Facilities Shutdown Work Plan		J	C.7.3.1
40420-TBD-C-35	CFC	Engineering	Facilities Dismantlement Work Plan		K	C.7.3.2
40420-TBD-C-36	CFC	Engineering	Request to Begin Demobilization		L	C.3.2.5.1
40420-TBD-H-8	CFC	Engineering	Project Close-Out Checklist or Contractor Termination Checklist		L	H.22
<b>GENERAL SUBMITTALS</b>						
40420-TBD-J-32	INF	Health & Safety	Contractor Monthly Manpower Report		Monthly	J.3.3.1.6
40420-TBD-G-1	INF	Procurement	Invoice		Monthly	G.2
40420-TBD-H-9	INF	Procurement	Contractor Termination Checklist		At Termination	H.22.1
40420-TBD-H-10	INF	Procurement	Payroll Records (During Construction Only)		Weekly	H.4.9
40420-TBD-C-37	CFC	Engineering	Weekly Activity Reports		Weekly	C.4.8.1

Contract No. F98P132339

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**Figure C.9-1, Contractor Submittal Register**

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-38	INF	Engineering	Weekly Schedule Update		Weekly	C.4.6.1
40420-TBD-C-39	INF	Engineering	Weekly Status Update		Weekly	C.4.8.2
40420-TBD-C-40	CFC	Engineering	Analytical Data Results		F	C.6.2.14.6, C.6.2.10, and C.6.3.5
40420-TBD-C-41	CFC	Engineering	Meeting Minutes		D	C.4.8.2
40420-TBD-C-42	INF	Engineering	Operations Logs and Records		Upon request, L	C.6.3.4
40420-TBD-C-43	INF	Engineering	Environmental Monitoring Data		Upon request, L	C.6.3.5
40420-TBD-J-33	INF	Health & Safety	Urinalysis Sampling Form		Monthly	J.3.3.1.9.2
40420-TBD-J-34	INF	Health & Safety	Bioassay Form		Bi-Monthly	J.3.3.1.9.2
40420-TBD-J-35	REC	Health & Safety	OSHA 24-Hour Field Experience Form		D	J.3.3.3.1
40420-TBD-C-44	INF	Engineering	Silo 3 Weekly Inspection Report		Weekly	C.6.2.1.1

**FIGURE C.9-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES**  
 [Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Submittal Register	ENG	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Performance Bonds/Payment Bonds	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Insurance	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Standard Form SF 1413	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
PLA Letter of Assessment	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
List of Contractors	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Training Certificates	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Conflict of Interest - Laboratory Utilization Plan	PROC	INF	NTP	5 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Resumes of Key Personnel	PROC	CFC	NTP	10 wds	5 wds	1 wds	NA	NA	NA	NA	NA	NA	NA
Letter Request to U.S. EPA to Receive CERCLA Waste at Off-site Receiving Unit	ENG	INF	NTP	5 wds	NA	NA	NA	NA	NA	NA	NA	NA	NA
Safety Basis Documentation Implementation Plan	H/S	CFC	A to M	20 wds	10 wds	20 wds	NA	NA	NA	NA	NA	NA	NA
Baseline Schedule	ENG	CFC	A to M	10 wds	5 wds	5 wds	NA	NA	NA	NA	NA	NA	NA
Project Management Plan	ENG	CFC	A to M	20 wds	10 wds	10 wds	NA	NA	NA	NA	NA	NA	NA
Eng. Management Plan	ENG	CFC	A to M	20 wds	10 wds	10 wds	NA	NA	NA	NA	NA	NA	NA
Configuration Management Plan	ENG	CFC	A to M	20 wds	10 wds	10 wds	NA	NA	NA	NA	NA	NA	NA

**FIGURE C.9-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES**  
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Procurement Management Plan	ENG	CFC	A to M	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Quality Assurance Plan	QUAL	CFC	Note 1	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Records Management and Document Control Plan	QUAL	CFC	Note 1	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Access Request & Profile Forms	H/S	INF	A to M	5 wwd	5 wwd	1 wd	NA	NA	NA	NA	NA	NA	NA
Medical Monitoring	H/S	INF	A to M	5 wwd	5 wwd	1 wd	NA	NA	NA	NA	NA	NA	NA
Safety and Health Program	H/S	INF	A to M	10 wwd	5 wwd	1 wd	NA	NA	NA	NA	NA	NA	NA
S&H Rep Qualifications	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Competent Person List	H/S	INF	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Accident Prevention Plan	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Respirator Program	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Heat and Cold Stress Program	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Confined Space Program	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Carcinogen Control Plan	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Fall Protection Plan	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Hazardous Chemical List & MSDS Documentation	H/S	CFC	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA
Contractor Manpower Report	H/S	INF	A to M	10 wwd	5 wwd	5 wd	NA	NA	NA	NA	NA	NA	NA

**FIGURE C.9-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES**  
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Personnel Monitoring Analysis Results	H/S	INF	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
General Area Monitoring Analysis Results	H/S	INF	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Radiation Source Accountability and Control Form	H/S	CFC	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Contractor Project-Specific Health and Safety Plan	H/S	CFC	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
• Preoperational Activities, Rev. 0	H/S	CFC	A to M	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
• Operational Activities, Rev. 1	H/S	CFC	A to O	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
• Facility Shutdown & Dismantlement, Rev. 2	H/S	CFC	NOTE 2	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
U.S. EPA Approval Letter to Allow Off-site Receiving Unit to Receive CERCLA Waste	ENG	INF	A to M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copy of Contractor's Off-site Facility's NRC License	ENG	INF	A to M	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trenching and Excavating Inspection Forms	H/S	CFC	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Hoisting Log	H/S	CFC	A to M	10 wwd	5 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Site Preparation Package (50%)	ENG	CFC, Note 7, Note 9	A to M	20 wwd	NA	NA	NA	NA	NA	NA	NA	NA	NA

**FIGURE C.9-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES**  
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Site Preparation Package (100%)	ENG	CFC, Note 7, Note 9	A to M	20 wwd	20 wwd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Pre-Operational Environmental Control Plan	ENG	CFC, Note 9	A to M	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Functional Requirements Document	ENG	CFC	A to M	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Design Criteria Package	ENG	CFC	A to M	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Conceptual Design Package	ENG	CFC	A to M	20 wwd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Preliminary Design Package	ENG	CFC	A to M, Note 8	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Final Design Report	ENG	CFC	A to M	20 wdd	5 wdd	5 wdd	NA	NA	NA	NA	NA	NA	NA
Design Closeout Report	ENG	CFC	A to O	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Failure Modes and Effects Analysis	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Energy Conservation Report	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Environmental Investigations/Engineering Studies (as required)	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Point Source Air Emissions Data	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Environmental Investigation/Engineering Study Work Plan (as required)	ENG	CFC	A to M	20 wdd	20 wdd	4 wd	NA	NA	NA	NA	NA	NA	NA

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Construction Safe Work Plan	ENG	CFC	A to M	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
List of Tools, Equipment, Vehicles	CONSTR	CFC	A to M	10 wwd	5 wdd	5 wdd	NA	NA	NA	NA	NA	NA	NA
Temporary Facilities	CONSTR	CFC	A to M	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Preliminary Hazard Analysis (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard Category Calculations (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Assessment (30%, 50% & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard Analysis	ENG	CFC, Note 5	A to O	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Basis Documentation (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Labor Relations/Work Force Utilization Plan	ENG	CFC	A to M	20 wwd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Schedule of Inspection and Tests	QUAL	CFC	A to M	10 wdd	5 wdd	5 wdd	NA	NA	NA	NA	NA	NA	NA
Health Physics Plan	H/S	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Transportation Plan	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
Permits and Licenses	ENG	CFC	A to M	20 wdd	10 wdd	10 wdd	NA	NA	NA	NA	NA	NA	NA
CAT Plan	CONSTR	CFC	Note 4	10 wdd	5 wdd	5 wdd	NA	NA	NA	NA	NA	NA	NA
Remedial Design Package	ENG	CFC	A to M	20 wdd	20 wdd	4 wdd	60 cd	5 cd	20 cd	5 cd	30 cd	25 cd	5 cd

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Material Receipt and Tracking Plan	ENG	CFC	A to O	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
SOT Plan - Procedures	TRNG	CFC	Note 4	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Lesson Plans	TRNG	CFC	Note 4	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Req Perform Pre-operational Assessment	ENG	INF	A to O	5 wwd	1 wwd	1 wwd	NA	NA	NA	NA	NA	NA	NA
Waste Container Certifications	ENG	CFC	A to O	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Request to Operate	ENG	CFC	A to O	5 wwd	1 wwd	1 wwd	NA	NA	NA	NA	NA	NA	NA
Welding Program	ENG	CFC	A to M	20 wwd	10 wwd	10 wwd	NA	NA	NA	NA	NA	NA	NA
Operating Procedures	ENG	CFC	A to O	20 wwd	20 wwd	20 wwd	NA	NA	NA	NA	NA	NA	NA
Maintenance Plan	ENG	CFC	A to O	20 wwd	20 wwd	20 wwd	NA	NA	NA	NA	NA	NA	NA
Facilities Shutdown Work Plan	ENG	CFC	Note 2	20 wwd	20 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Facilities Dismantlement Work Plan	ENG	CFC	Note 2	20 wwd	20 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
• Project Close-Out Checklist	ENG	CFC	Note 3	20 wwd	20 wwd	5 wwd	NA	NA	NA	NA	NA	NA	NA
Invoice	PROC	INF	Payment	10 wwd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fastener Quality Certificate	QUAL	CFC	NA	10 wwd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Payroll Records (During Construction only)	PROC	INF	NA	10 wwd	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Personnel Termination Checklist	PROC	INF	Note 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Activity Reports	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Schedule Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Status Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Analytical Data Results	ENG	CFC	Note 6	5 vwd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Meeting Minutes	ENG	CFC	NA	1 vwd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Environmental Monitoring Data	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operator Logs and Records	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Urinalysis Sampling Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bioassay Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OSHA 24-Hour Field Experience Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silo 3 Inspection Forms	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

- NOTE 1:** These documents are to be approved/accepted prior to the submittal by the Contractor of the draft Preliminary Design Package.  
**NOTE 2:** These documents are to be approved/accepted prior to the start of facility shutdown and dismantlement activities.  
**NOTE 3:** This document is to be accepted prior to being able to close out the project and demobilize.  
**NOTE 4:** This document is to be approved/accepted prior to the start of pre-operational testing.  
**NOTE 5:** The safety basis documentation will undergo review approval in parallel to the Preliminary Design Package, per Section J.3.2.  
**NOTE 6:** Prior to shipping waste to the disposal facility.  
**NOTE 7:** These documents will require a 50% submittal and 100% submittal.  
**NOTE 8:** FDF/DOE review final draft and acceptance of the Preliminary Design Package will not take place until EPA approves the Operations Work Plan.  
**NOTE 9:** DOE will review and/or approve these documents concurrent with FDF

FDF	- FDF	A to O	INF	- Authorization to Operate
DOE	- U.S. Department of Energy		CFC	- Information submittal for compliance review.
EPA	- U.S. Environmental Protection Agency		NTP	- Certified for construction, reviewed for conformance to requirements.
RTC	& Ohio Environmental Protection Agency	A to M		- Notice Proceed
NA	Response to Comments Document			- Authorization to Mobilize/Construct
	- Not Applicable			

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Submittal Register		ENG	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Performance Bonds/Payment Bonds		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Insurance		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Standard Form SF 1413		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
PLA Letter of Assessment		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
List of Contractors		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Training Certificates		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Conflict of Interest - Laboratory Utilization Plan		PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Resumes of Key Personnel		PROC	CFC	NTP	10 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Letter Request to U.S. EPA to Receive CERCLA Waste at Off-site Receiving Unit		ENG	INF	NTP	5 wd	NA	NA	NA	NA	NA	NA	NA	NA
Safety Basis Documentation Implementation Plan		H/S	CFC	A to M	20 wd	10 wd	20 wd	NA	NA	NA	NA	NA	NA
Baseline Schedule		ENG	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Project Management Plan		ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Eng. Management Plan		ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Configuration Management Plan		ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA

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				Contr. Finalize Draft	EPA Finalize Draft	Develop Final	Final to EPAs	Final to EPAs	Final to EPAs	Final to EPAs	Final to EPAs	Final to EPAs
Procurement Management Plan	ENG	CFC	A to M	20 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Quality Assurance Plan	QUAL	CFC	Note 1	20 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Records Management and Document Control Plan	QUAL	CFC	Note 1	20 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Access Request & Profile Forms	H/S	INF	A to M	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Medical Monitoring	H/S	INF	A to M	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Safety and Health Program	H/S	INF	A to M	10 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA
S&H Rep Qualifications	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Competent Person List	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Accident Prevention Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Respirator Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Heat and Cold Stress Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Confined Space Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Carcinogen Control Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Fall Protection Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Hazardous Chemical List & MSDS Documentation	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Contractor Manpower Report	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA

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				Contr. Finalize Draft	EPA Review Draft	Develop RTC & Draft Final	Final to EPAs	EPA Approve Draft Final	Contr. Finalize & Submit	FDF/DOE Submit Final to EPAs	
Personnel Monitoring Analysis Results	H/S	INF	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
General Area Monitoring Analysis Results	H/S	INF	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
Radiation Source Accountability and Control Form	H/S	CFC	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
Contractor Project-Specific Health and Safety Plan	H/S	CFC	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
• Preoperational Activities, Rev. 0	H/S	CFC	A to M	20 wd	10 wd	NA	NA	NA	NA	NA	NA
• Operational Activities, Rev. 1	H/S	CFC	A to O	20 wd	10 wd	NA	NA	NA	NA	NA	NA
• Facility Shutdown & Dismantlement, Rev. 2	H/S	CFC	NOTE 2	20 wd	10 wd	NA	NA	NA	NA	NA	NA
U.S. EPA Approval Letter to Allow Off-site Receiving Unit to Receive CERCLA Waste	ENG	INF	A to M	NA	NA	NA	NA	NA	NA	NA	NA
Copy of Contractor's Off-site Facility's NRC License	ENG	INF	A to M	NA	NA	NA	NA	NA	NA	NA	NA
Trenching and Excavating Inspection Forms	H/S	CFC	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
Hoisting Log	H/S	CFC	A to M	10 wd	5 wd	NA	NA	NA	NA	NA	NA
Site Preparation Package (50%)	ENG	CFC, Note 7, Note 9	A to M	20 wd	NA	NA	NA	NA	NA	NA	NA

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Site Preparation Package (100%)	ENG	CFC, Note 7, Note 9	A to M	20 wd	20 wd	10 wd	NA	NA	NA	NA	NA	NA
Pre-Operational Environmental Control Plan	ENG	CFC, Note 9	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Functional Requirements Document	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Design Criteria Package	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Conceptual Design Package	ENG	CFC	A to M	20 wd	NA	NA	NA	NA	NA	NA	NA	NA
Preliminary Design Package	ENG	CFC	A to M, Note 8	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Final Design Report	ENG	CFC	A to M	20 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA
Design Closeout Report	ENG	CFC	A to O	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Failure Modes and Effects Analysis	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Energy Conservation Report	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Environmental Investigations/Engineering Studies (as required)	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Point Source Air Emissions Data	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA
Environmental Investigation/Engineering Study Work Plan (as required)	ENG	CFC	A to M	20 wd	20 wd	4 wd	NA	NA	NA	NA	NA	NA

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Construction Safe Work Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
List of Tools, Equipment, Vehicles	CONSTR	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Temporary Facilities	CONSTR	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Preliminary Hazard Analysis (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard category Calculations (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Assessment (30%, 50% & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard Analysis	ENG	CFC, Note 5	A to O	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Basis Documentation (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Labor Relations/Work Force Utilization Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Schedule of Inspection and Tests	QUAL	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Health Physics Plan	H/S	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Transportation Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Permits and Licenses	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
CAT Plan	CONSTR	CFC	Note 4	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Remedial Design Package	ENG	CFC	A to M	20 wd	20 wd	4 wd	60 cd	5 cd	20 cd	5 cd	30 cd	25 cd	5 cd

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				Finalize Draft	EPA Accept	Comments & Provide to Contr.	Final to EPAs	Final	Final	Final	Final
Material Receipt and Tracking Plan	ENG	CFC	A to O	20 wd	10 wd	NA	NA	NA	NA	NA	NA
SOT Plan - Procedures	TRNG	CFC	Note 4	20 wd	10 wd	NA	NA	NA	NA	NA	NA
Lesson Plans	TRNG	CFC	Note 4	20 wd	10 wd	NA	NA	NA	NA	NA	NA
Req Perform Pre-operational Assessment	ENG	INF	A to O	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Waste Container Certifications	ENG	CFC	A to O	20 wd	10 wd	NA	NA	NA	NA	NA	NA
Request to Operate	ENG	CFC	A to O	5 wd	1 wd	NA	NA	NA	NA	NA	NA
Welding Program	ENG	CFC	A to M	20 wd	10 wd	NA	NA	NA	NA	NA	NA
Operating Procedures	ENG	CFC	A to O	20 wd	20 wd	NA	NA	NA	NA	NA	NA
Maintenance Plan	ENG	CFC	A to O	20 wd	20 wd	NA	NA	NA	NA	NA	NA
Facilities Shutdown Work Plan	ENG	CFC	Note 2	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA
Facilities Dismantlement Work Plan	ENG	CFC	Note 2	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA
• Project Close-Out Checklist	ENG	CFC	Note 3	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA
Invoice	PROC	INF	Payment	10 wd	NA	NA	NA	NA	NA	NA	NA
Fastener Quality Certificate	QUAL	CFC	NA	10 wd	NA	NA	NA	NA	NA	NA	NA
Payroll Records (During Construction only)	PROC	INF	NA	10 wd	NA	NA	NA	NA	NA	NA	NA

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Personnel Termination Checklist	PROC	INF	Note 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Activity Reports	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Schedule Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Status Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Analytical Data Results	ENG	CFC	Note 6	5 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Meeting Minutes	ENG	CFC	NA	1 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Environmental Monitoring Data	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operator Logs and Records	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Urinalysis Sampling Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bioassay Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OSHA 24-Hour Field Experience Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silo 3 Inspection Forms	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

- NOTE 1: These documents are to be approved/accepted prior to the submittal by the Contractor of the draft Preliminary Design Package.
- NOTE 2: These documents are to be approved/accepted prior to the start of facility shutdown and dismantlement activities.
- NOTE 3: This document is to be accepted prior to being able to close out the project and demobilize.
- NOTE 4: This document is to be approved/accepted prior to the start of pre-operational testing.
- NOTE 5: The safety basis documentation will undergo review approval in parallel to the Preliminary Design Package, per Section J.3.2.
- NOTE 6: Prior to shipping waste to the disposal facility.
- NOTE 7: These documents will require a 50% submittal and 100% submittal.
- NOTE 8: FDF/DOE review final draft and acceptance of the Preliminary Design Package will not take place until EPA approves the Operations Work Plan.
- NOTE 9: DOE will review and/or approve these documents concurrent with FDF

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fdf	A to O	INF	- Authorization to Operate
DOE		CFC	- Information submittal for compliance review.
EPA		NTP	- Certified for construction, reviewed for conformance to requirements.
RTC	A to M		- Notice Proceed
NA			- Authorization to Mobilize/Construct
			- Not Applicable